## ISSUE SLIP STAPLE AREA (for additional cross references)

| POS!TION                  | INITIALS | .ОN GC | DATE    |
|---------------------------|----------|--------|---------|
| FEE DETERMINATION         |          |        |         |
| O.I.P.E. CLASSIFIER       | 24       |        | 1-28.02 |
| FORMALITY REVIEW          | '/       |        |         |
| RESPONSE FORMALITY REVIEW |          |        |         |

## INDEX OF CLAIMS

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|---------|---------------|--------------|--------------------|--------------------|-----|---|----------|------|---------------|---|----------------|-----------|----------|---|----------|--------------|----------------|-----------|--|------|-----------|----------|---|------------|----------|----------|--------------|------------|----------|---------------|----------|----------|------------|----------|----------|--------------|------------|----------|----------|-----|---|
|         |               | ✓ Rejected N |                    |                    |     |   |          |      |               |   |                |           |          |   | ١.       |              |                |           | ••••   |      |           | . No     | n-el                                    | ect        | ed       |          |              |            |          |               |          |          |            |          |          |              |            |          |          |     |   |
|         |               |              | 1                  |                    |     | = Allowed I                                   |          |      |               |   |                |           |          |   |          |              |                |           | Ι.   |      | ••••      | •••••    | ••••                                    |            |          | . Int    | erte         | ren        | ce       |               |          |          |            |          |          |              |            |          |          |     |   |
|         |               | ş.           | √                  |                    | 1   | 5   |          | -    | (1            | (Through numeral) Canceled A Restricted 0 |                |           |          |   |          |              |                |           |  |      | M.<br>N   | ••••     | •••••                                   | •••••      |          |          | •••••        | . ռբ<br>Ոհ | iect     | ed            |          |          |            |          |          |              |            |          |          |     |   |
|         |               |              | 8                  | ٨                  | 1 9 | 3   |          | ÷    | Restricted 0  |   |                |           |          |   |          |              |                |           |  | •••• |           | •••••    | •••••                                   | •••••      |          |          | ,            |            |          |               |          |          |            |          |          |              |            |          |          |     |   |
| ſ       | Clai          | _            | 7                  | -                  | 7   | <u>,                                     </u> |          | Date | le Claim Date |   |                |           |          |   |          |              |                |           |  | -    | _         |          | _                                       | $\neg$     |          | Cla      | im           |            |          |               | Date     |          |            |          |          |              |            |          |          |     |   |
| ł       | $\neg$        |              | 2                  | ij                 | 1,  | शे  | 7        | ٦    | Ť             |   |                |           | ᄅ        |   |          |              | B              | <u>8</u>  | T  | Γ    | Ť         | T        | T                                       | П          | Ī        | T        | ┨            | ľ          |          | $\overline{}$ |          | П        |            | .        | 1        |              | 日          | Т        | П        |     | ı |
| ١       | -             | Original     | /2/                | 3                  |     | 1   | .        |      |               |   |                |           |          |   | le l     | ging         |                |           | -  | l    | 1         | -        | 1                                       | 1          | 1        | ١        |              |            | Final    | Original      | -        | 1        | ١          | -        | ١        |              | -          | 1        |          |     |   |
|         | Final         | Š            | 1                  | 1                  | 1   | Ĺ   |          | Ì    |               |   |                |           | Щ        |   | Final    | δ            | 9              | Ŋ         | Ľ  | L    | 1         | _        | 4                                       | 4          | 4        | 4        | _            |            | ᄪ        | Ŏ             | 4        | 4        | 4          | 4        | 4        | $\dashv$     | $\dashv$   | $\dashv$ | 4        | 긕   |   |
| Ţ       | ·             | D            | $\perp$            | Ц                  |     | Ц   |          | _    |               | L   | L              | _         | Ц        |   | _        | Buigho 42 53 | 2              | _         | _  | ╀    | +         | 4        | -                                       | 4          | 4        |          | _            | 1          | Н        | 101<br>102    | -        | +        | $\dashv$   | +        | -+       | -            | $\dashv$   | $\dashv$ | -        | -   |   |
| ١       | _             | 4            | 1                  | Ц                  | +   | Ц   | 4        | _    | Н             | _   | _              |           | Н        |   | -        | 3<br>3       | H              | _         | ┝  | ╀    | +         | +        | +                                       | $\dashv$   | $\dashv$ | -        | 긕            |            | Н        | 103           | +        | +        | ╛          | $\dashv$ | -        | $\dashv$     | $\dashv$   | +        | +        | -   |   |
| ١       |               | ľ            | -                  | ₩                  | +   | Н   | -        |      | _             | -   |                | H         | Н        |   | ⊢        |              | ٦              | _         | $\vdash$   | ╁╌   | +         | $\dashv$ | +                                       | $\dashv$   | ┪        | ᅱ        | $\dashv$     |            | H        | 104           | $\dashv$ | +        | +          | -        | $\dashv$ | -            | $\dashv$   | $\dashv$ | $\dashv$ | -   |   |
|         | -             | ŧ            | ╫                  | H                  | +   | Н   | $\dashv$ | _    | -             | ┢   | H              | ╁         | Н        |   | $\vdash$ | 54<br>55     | v              |           | ╁╴   | t    | Ť         | 7        | 7                                       | 7          | 寸        | 7        | _            |            | П        | 105           |          | 7        |            |          |          |              |            |          |          |     |   |
|         | $\dashv$      | ¢            | $\parallel$        | Ħ                  | -11 | H   |          |      |               |   | $\vdash$       | 1         | $\vdash$ |   | Г        | 6            | V              |           |  |      | I         |          |   |            |          |          |              |            |          | 106           | $\Box$   |          | $\Box$     |          |          |              |            | $\Box$   | $\Box$   |     | 1 |
|         | ╗             | Ī            |                    | Ħ                  |     |   |          |      |               |   |                |           |          |   | Ē        | \$7          | L              |           | L  | L    | Į         |          | _                                       |            |          | _        |              |            | _        | 107           | 4        | 4        | 4          | 4        | 4        | _            | $\sqcup$   | $\dashv$ | 4        |     | ŀ |
|         | ·             | 1            | П                  |                    | П   | Ц   |          |      | L             |   | L              | L         | _        |   | <u> </u> | <b>\$8</b>   | 4              | _         | ╀  | 1    | +         | 4        | -                                       | -          | -        |          |              |            | ⊢        | 108           | -        |          |            | $\dashv$ | 4        |              | H          | $\dashv$ | $\dashv$ |     |   |
| .2.<br> |               |              | 1                  | Į.                 | Ц   | Ц   |          | 1    | -             | Ŀ   | <del> </del> - | ╀         | ├-       |   | H        | 49           | \ <u>\</u>     | <u> </u>  | ╀  | ╀    | +         | -        | -                                       | $\dashv$   | -        | -        |              | _          | H.       | 109<br>110    |          | -        | -          | $\dashv$ |          | H            |            |          | -        | -   |   |
| -       |               |              | 11                 | H                  | Н   | ŀ   |          | -    | ├             | -   | ÷              | ╁         | +        |   | -        | <b>Q</b> 0   | ) <u>~</u>     | -         | -  | +    | +         | 7        | 7                                       | H          |          | - :      |              | =          | ┝        | 111           | •        | -        |            | $\dashv$ |          | . "          |            |          |          | 1,1 | 1 |
|         |               | 1            | H                  | +                  | Н   | H   | _        | -    | ┢             | ÷   | t              | t         | $\vdash$ |   | Ė        | <b>d</b> 2   | ځ <del>ز</del> |           | t  | †    | +         | 7        |   |            |          |          | -            | 1          |          | 112           |          |          |            |          |          |              |            |          |          | Ξ   | - |
| ·       | Н             | 1            | H                  | Ħ                  | H   | t   |          | 7    |               | T   | T              | T         |          |   |          | 63           |                | v         | 1  | 1    | I         |          |   |            |          |          |              | ]          |          | 113           |          |          |            |          |          |              | Ц          |          | Ш        | _   | 1 |
| •       | Τ.            | 14           | $\prod$            | T                  | П   | 1   |          |      |               |   |                |           |          |   |          | 64           |                | П         | L  | I    | 1         | $\Box$   | _                                       |            |          |          | L            | 1          | L        | 114           | Ц        | _        |            | _        |          | _            | 11         | -        | Ш        | _   | 1 |
|         | -             | 4            |                    | П                  |     | I   |          |      | L             | L   | L              | 1         | ļ        |   | L        | 65           | -              | Н         | 4-   | 4    | 4         | 4        | _                                       | -          |          | _        | -            | ł          | $\vdash$ | 115<br>116    | $\vdash$ | $\dashv$ | $\dashv$   | Н        | H        | <u> </u>     | Н          | $\vdash$ | H        | -   | ł |
|         | <u> </u>      | Į.           |                    | Щ                  | 4   | l   |          | ļ    | ┡             | ╄   | ╀              | ╀         | ╀        | ┨ | -        | 66           |                | Н         | +  | ╀    | +         | $\dashv$ | $\dashv$                                |            | _        | _        | ┝            | ł          | $\vdash$ | 117           | Н        | $\dashv$ | H          | $\dashv$ |          | -            | -          | H        | Н        | H   | 1 |
|         | -             | 17           |                    | 4                  | +   | ╀   | $\vdash$ | ┞    | ╀             | ╀   | ╀              | ╁╸        | ╀        | 1 | $\vdash$ | 68           | -              | Н         | H-   | +    | Ť         |          |   | $\exists$  |          | -        | -            | 1          | -        | 118           | H        | ᅥ        | Ħ          |          |          | 一            | H          | H        | П        | Г   | 1 |
|         | <del> -</del> | ŀ            | _                  | ╀                  | Н   | t   | -        | ╀─   | H             | ╁   | +              | t         | t        | 1 | -        | 69           | -              | Ħ         | ╫  | +    | †         | _        |   |            | _        | _        | <del> </del> | 1          |          | 119           | П        |          |            |          | -        |              |            | П        |          |     | 1 |
| •       | 7             | 4            |                    | t                  | H   | t   | -        | ╁╴   | ┢             | t   | 十              | t         | t        | 1 | F        | 70           | 1.             | Τ         |  | 1    | ┪         |          |   | -          |          |          |              | 1          | Г        | 120           | П        |          |            |          |          | Ī.           |            | П        |          | _   | ] |
|         |               | 2            |                    | h                  | ÌΙ  | †   |          |      | 1             | T   | 1              | T         | T        | 1 |          | 7            |                |           |  | 1    | I         |          |   |            |          |          |              | ]          |          | 121           |          |          |            |          |          |              |            |          |          |     | 1 |
| •       |               | V            | 2                  | $\bar{\mathbb{T}}$ | V   | 1   |          |      |               | Γ   |                | I         | L        | ] |          | 72           |                | L         | Щ  | 1    | _         |          |   | Ш          |          | Ŀ        | L            |            | L        | 122           |          |          | <u> </u>   | _        | _        | 1            |            |          | <u> </u> | ⊢   | - |
|         | Ľ             | S            | Ľ                  |                    | 쐿   | 4   | L        |      | 1             | 1   | 1              | ╀         | ╀        | - | $\vdash$ | 7:           |                | Н         | $\!$ | +    | 4         |          | _                                       |            | Ļ        | -        | -            | ┨          | -        | 123           | $\vdash$ |          | -          | ├        | -        | <del> </del> | ⊢          | H        | ⊢        | ⊢   | ┨ |
|         | -             | H            | K.                 |                    | 4   | 4   | ┡        | ┞    | ╀             | ╀   | ╀              | +         | ╁        | ┨ | -        | 17           |                | Н         | ╫  | ╫    | $\dashv$  |          |   | $\vdash$   | ├-       | H        | ┝            | ┨          | $\vdash$ | 125           | -        |          | -          | -        | -        | ┢            | ┢          | H        | H        | Ė   | 1 |
|         | -             | à            | K                  |                    | M   | +   | -        | ╁    | ╆             | ╁   | ╁              | t         | ╁        | 1 | 1        | 70           | _              | H         | ۲  | +    | ┪         | _        |   | Н          | _        | ┢        | T            | 1          |          | 126           |          |          | -          |          |          |              | $\Box$     | $\Box$   |          |     | 1 |
|         | -             | đ            | ئلا                | 7                  | M   | 1   | ╁        | †    | †             | T   | T              | Ť         | 1        | 1 |          | 7            | <u>'</u>       | П         |  | 1    | $\exists$ |          |   |            |          |          |              | ]          |          | 127           |          |          |            |          | Ŀ        |              | $\Box$     |          |          | L   |   |
|         |               | 2            | برا                | 7                  | Й   | 1   |          |      | I             |   |                | İ         |          | ] |          | 78           |                | П         | $\mathbf{I}$   | I    | $\Box$    |          |   |            |          |          |              | ]          |          | 128           |          |          | L          | L        | L        | Ļ            | <b>L</b> _ | _        | L        | L   | 1 |
|         |               | 13           |                    | 4                  | М   |   | L        | L    | L             | L   | ╀              | 1         | 1        |   | L        | 79           |                | Н         | 4-   | 4    | 4         | $\vdash$ |   | <u> </u> _ | <u> </u> | <u> </u> | ↓_           | -          | -        | 129<br>130    | -        |          | -          | -        | ⊢        | ⊢            | ╀          |          | ├        | ┝   | ┨ |
|         | L             |              |                    | -                  | Щ   | 4   | ┞        | ╄    | ╁             | +   | ╀              | +         | ╄        | - | $\vdash$ | 8            | _              | Н         | +  | +    | -{        |          | H                                       | -          | -        | ├        | ╁            | ┨          | -        | 131           | -        |          | -          | -        | ┝        | ╁            | ╁          | ├        | ┢        | ┢   | ┨ |
|         | $\vdash$      | 3            | ť                  | 4                  | M   | +   | -        | ╀    | ╁             | ╀   | ╀              | ╁         | ╁        | ┨ | H        | 8            | _              | Н         | +  | +    | ┥         | _        | H                                       | <u> </u>   | -        | ┢        | H            | 1          | $\vdash$ | 132           | •        |          | $\vdash$   |          | $\vdash$ | T            | $\vdash$   | $\vdash$ | H        |     | 1 |
|         | ┢             | 3            | ť                  |                    | М   | +   | H        | ╁╌   | ╁             | +   | +              | ╈         | +        | 1 | 十        | 83           | -              | t         | H  | +    | ┪         |          |   |            | $\vdash$ |          | T            | 1          | 1        | 133           |          | _        | _          |          |          |              |            |          |          | L   | ] |
|         |               | 13           | 7                  | 7                  | ĸ.  | †   |          | ✝    | T             | +   | †              | Ť         | +        | 1 | r        | 8            | 1              | T         | 1  | 1    | ╛         |          |   |            |          |          |              | ]          |          | 134           | _        |          |            |          |          |              | L.         |          |          | L   | ] |
|         |               | Ġ            |                    | 1                  | M   | 1   |          |      | I             |   |                | I         | Ι        | ] |          | 8            |                | $\Gamma$  | Д  | 1    | $\Box$    |          |   |            | L        | L        | L            | 1          | -        | 135           |          |          | L          | L        | Ľ        | Ļ            | ╄          | ļ        | -        | ╀   | 1 |
|         | L             | 1            | 1                  | 4                  | М   | 1   |          |      | L             | L   | 1              | Ļ         | ┺        | - | L        | 8            |                | ŀ         | 4  | 4    | -         |          |   |            | L        | ┞        | ╀            | 4          | -        | 137           |          | _        | <b> </b> - | -        | ⊢        | ⊬            | ╆╌         | H        | ⊬        | ╁   | ┨ |
|         | 1             | 1            | #                  | 4                  | М   | 4   | -        | ╀    | ┼-            | ╄   | ╀              | +         | ╀        | ł | ┝        | 8            |                | 1         | 4  | +    | -         | -        |   |            | ⊢        | ╢        | ╁╴           | 1          | $\vdash$ | 138           | _        | _        | ┝          | -        | ┢        | ╁            | ╁╴         | -        | ┢        | ┢   | 1 |
|         | Ļ             | Н            | Æ                  | 4                  | M   | +   | ├        | ╀    | ╁             | ╀   | +              | ╁         | ╁        | ┨ | $\vdash$ | 8            |                | K         |  | +    | -         | $\vdash$ | ┢                                       | H          | $\vdash$ | t        | ╁            | 1          |          | 139           | _        | ┢        | H          | H        | ┢        | $\vdash$     | $\vdash$   | $\vdash$ | Г        | T   | 1 |
|         | F             | d            | Н.                 | 1                  | X   | $\dagger$                                     | ┢        | ╁    | ╁             | ╁   | $\dagger$      | +         | $^{+}$   | 1 |          | 9            | →              | ti        | 7  | 1    | ┪         | Т        | Г                                       | $\vdash$   | Г        |          | 1            | 1          | $\vdash$ | 140           |          |          | -          | <u> </u> | Ī        | Г            | Г          |          |          | Г   | ] |
|         | -             | đ            | Ж,                 | ľ                  | √,  | rt  | ┢        | t    | $\dagger$     | ╁   | t              | $\dagger$ | ╅        | 1 | $\vdash$ | 9            | ī              | K         |  | 1    | 7         | Г        |   |            | Г        | 1        | T            | 1          |          | 14            | 4        |          |            |          |          | L            |            |          |          | L   | ] |
| •       | 1             | ğ            | 7                  | 1                  | ٦   | 7   | 1        | T    | T             | $\dagger$                                 | 丁              | <u> </u>  | T        | 1 |          | 9            | 2              | 1         | 1  |      |           |          |   |            |          |          | Γ            | 1          |          | 142           | -        | 匚        | Г          |          | 匚        | Ĺ            | _          | $\perp$  | L        | L   | 1 |
|         |               | 4            | 3                  |                    |     | V   | 1        | Ι    | I             | I   | I              | T         | Ţ        | ] |          | 9            | -              | L         | II.  | J    |           |          |   |            |          | L        | $\perp$      | 1          | L        | 140           | -        | ļ        | 1          | <u> </u> | $\vdash$ | $\vdash$     | $\vdash$   | 1        | -        | ⊬   | ┨ |
|         |               | 14           | ŧĹ                 | Ţ                  |     | >   | -        | L    |               | T   | Ĺ              | 1         | $\perp$  | 1 | L        | 9            |                | +         | ₩.   | 4    | _         | L-       | -                                       |            | -        | $\vdash$ | +            | -          | -        | 145           |          | ⊢        | $\vdash$   | ⊢        | $\vdash$ | ╁            | +          | ├        | $\vdash$ | ╁   | + |
| ,       | 4-            | 4            |                    | 4                  |     | 2   | +-       | +    | +             | +   | +              | +         | +        | - | -        | 9            | _              | +         | ₩  | +    | 4         | $\vdash$ | ⊢                                       | $\vdash$   | -        | +        | ╁            | +          | $\vdash$ | 146           |          | $\vdash$ | $\vdash$   | -        | $\vdash$ | +            | +          | $\vdash$ | +        | t   | 1 |
| į       | $\vdash$      | 13           | 앍-                 | +                  | -   | 7   |          | ╀    | +-            | +   | +              | +         | +        | - | $\vdash$ | 9            | _              | +         | H  | +    | -         | $\vdash$ | $\vdash$                                | $\vdash$   | +        | 1        | ╁            | 1          | -        | 14            |          | 1        | 1          | 1        | $\vdash$ | $\vdash$     | $\top$     | Г        | T        | T   | 1 |
| ļ       | $\vdash$      | Ø            |                    | ┥                  | -   | 1   | -        | ╁    | +             | +   | +              | +         | +        | + | +        | 9            |                | $\dagger$ | H  | 7    | -         | 1        | 1                                       | T          |          | T        | T            | 1          | 1        | 141           | _        |          | L          |          |          |              |            |          | I        | L   | ] |
| •       | 1             | 1            |                    | 7                  |     | J   |          | +    | T             | 1   | _              | $\dagger$ | 1        | 1 | t        | 9            |                | Ι         |  | 1    |           |          |   |            |          | L        | I            | ]          |          | 149           |          |          | Г          | 匚        | Γ        | I            | $\Box$     | $\Box$   | L        | F   | 1 |
|         |               | (3           | 9                  |                    |     | V   | 1        | 1    | I             | Ţ   | I              | J         | 1        | ] |          | 10           | o              | N         | /  | _[   |           |          | ـــــــــــــــــــــــــــــــــــــــ | L          | <u></u>  | L        |              | J          | L        | 150           | 1        | L        | <u>L</u> _ | ١        | _        | 1_           | Ь.         | L_       | 上        | 1   | J |

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